Table 15: Tat

| HXB2 Location | Author Location | Sequence | Immunogen | Species(HLA) | References |
|--------------------|--|---|--|--|--|
| Tat(2–11) | () | EPVDPRLEPW | | (B53) | [Addo (2001), Brander & Goulder(2001)] |
| Tat(2–11) | early in infection a • 11/57 (19.3%) HIV | and for vaccines – therefore V-1+ individuals recognized | HIV-1 infection ed early in the virus life cycle ar CTL responses against Tat and lat least 1 Tat peptide, and 21/57 luals, but only two were B53, thu | Rev were screened using over (37%) responded to at least | rlapping peptides 1 Rev peptide |
| Tat(36–50) | 17 of 46 patient resMost of the CTL res | acted with Tat immunodom esponses occurred despite a | RK s and full length HIV-1 genome s inant peptide VCFQTKGLGISY mismatch between the autologou sched CTL tended not to respond | GRK us viral sequence and peptide | – complete matches were |
| Tat(38–47) | infected Botswana17 of 46 patient res | n cohort acted with Tat immunodom | s a survey of CTL responses and inant peptide VCFQTKGLGISY peptide VCFQTKGLGISYGR | /GRK | |
| Tat(49–57) | • The system was de | emonstrated by vaccinating | nted to a protein can cause that p mice with an OVA-Tat peptide c a peptide SIINFEKL was stimula | onjugate and immunizing H | |
| Tat(49–57) Vaccin | Tat, Nef Stimu | elatory Agents: IL-18 ALB/c mice primed and book | Vaccine th recombinant protein boost osted with the multiepitopic vacc | • | |

| | • | Co-administration of | f IL-18 increased T-c | ell responses but decreased | d anti-HIV antibo | ody levels | | | |
|----------|---|---|---|---|------------------------------------|---|---|--|--|
| Tat(83-9 | • | as epitopes A subset of the poter B7, B8, and B58) ep | ntial epitopes was iden pitopes could stimulat | unction with the program C | e appropriate HLA | | [De Groot (2001)] ons of HIV that might serve icted B7 superfamily (HLA | | |
| Tat() | | Tat() Vector/type: DNA 9/9 HIV-1+ subjects | HIV component: | | nef rev or tat a | human() | [Calarota (1999)] re and CTL responses were | | |
| | • | generated The nef DNA immuse Highly active antiret | nization induced the troviral treatment (HA | highest and most consisten AART) did not induce new | nt CTLp activity, HIV-specific CT | IFN- γ production, an L responses but redu | • | | |
| Tat() | • | Tat() HIV-1 infection human() [Froebel (1997)] Two HIV-1 infected children with contrasting disease courses were followed longitudinally – one died of AIDS, the other is a long-term non-progressor Reactivity against Gag, Pol, Env and Tat proteins was tested by PBMC bulk cultured cells reacting with protein expressed in vaccinia constructs in autologous EBV transformed B cells The child who progressed consistently had CTL against Pol and Tat The long-term non-progressing child had no detectable CTL, but was heterozygous for a mutation in the CCR5 receptor and for HLA-B49, which has been shown to be associated with slower progression | | | | | | | |
| Tat() | | Tat() | | HIV-1 infectio | | human() | [Calarota & Wahren(2001)] | | |
| | | • Vector/type: DNA HIV component: Nef, Rev, Tat Stimulatory Agents: CpG motifs • This review discusses the cellular immune response, and comments on the stimulatory role of CpG motifs and how HIV-1 DNA vaccines can boost the CTL and Th proliferative responses in asymptomatic HIV+ individuals | | | | | | | |
| Tat() | • | CpG sequences, 12 i | unmethylated nals contained a prin | nary infection challenge w | inked to an adendrith SHIV89.6P, I | | [Cafaro (2001)] motor in a plasmid with 23 cell decline in the animals, | | |

Tat() Tat() Vaccine murine(H- 2^d) [Xin (2001)]

Vaccine: Vector/type: adeno-associated virus (AAV) HIV component: Env, Tat, Rev Stimulatory Agents: IL-2

- An AAV vector expressing HIV-1 env, tat, and rev genes (AAV-HIV vector) was used to vaccinate BALB/c mice
- A single injection stimulated and long lasting serum IgG, fecal IgA, and HIV-specific CTL
- Boosting enhanced the humoral response, and IL-2 enhanced T-cell immunity